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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/810,598	03/29/2004	Toshio Masuda	520.39649CX3	9708
20457 7:	590 01/11/2006		EXAM	INER
ANTONELLI, TERRY, STOUT & KRAUS, LLP			KACKAR, RAM N	
1300 NORTH SEVENTEENTH STREET SUITE 1800			ART UNIT	PAPER NUMBER
ARLINGTON,	VA 22209-3873		1763	·· <u> </u>

DATE MAILED: 01/11/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		<i>W</i>			
•	Application No.	Applicant(s)			
Office Action Summers	10/810,598	MASUDA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Ram N. Kackar	1763			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 01 No.	ovember 2005.				
2a)⊠ This action is <b>FINAL</b> . 2b)□ This	2a)☑ This action is <b>FINAL</b> . 2b)☐ This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) ⊠ Claim(s) <u>24-35</u> is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>24-35</u> is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	vn from consideration.				
Application Papers					
<ul> <li>9) The specification is objected to by the Examiner.</li> <li>10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).</li> </ul>					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:				

U.S. Patent and Trademark Office PTOL-326 (Rev. 7-05) Application/Control Number: 10/810,598

Art Unit: 1763

### DETAILED ACTION

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

1. Claims 24-35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Moslehi (US 5846883) in view of Grimbergen et al (US 6390019).

Moslehi discloses a vacuum (Abstract) plasma processing chamber (Fig 11), substrate holder (Fig 22) to hold a substrate for processing, electric conductive member (Fig 2 172-174 and Fig 8 328) supplied with electric power to generate plasma (Fig 6 313), a plate disposed above the sample loading surface coupled to electric conductive member (Fig 1-106), a cylindrical shaped optical transmitter mounted on the conductor member and plate (110) to provide optical view port for multitude of sensors (Col 4 lines 40-54), a holder to hold the optical transmitter with a seal for the optical transmitter (200).

Moslehi does not disclose that the light from the processing chamber for the purpose of reaching the sensor at the back of the optical transmitter goes through at least one through hole.

Grimbergen et al disclose a process chamber (Fig 1-35) and disclose optical transmitter (135) with through holes to allow light for the sensor (Fig 1-160 or Fig 2-25) to pass through holes (145), which allow the light to reach the sensor and reduce the possibility of deposition on the phase of the optical transmitter (Col 8 lines 35-43). Grimbergen et al teach that the aspect ratio of through holes depends upon particular process (Col 10 line 65- Col 11 line 2) and could be 12 (Col 10 lines 1-9).

Therefore it would have been obvious for one of ordinary skill in the art at the time of invention to have through holes in front of optical transmitter in order to have a longer use before cleaning or replacement by reducing the possibility of unwanted deposition.

### Response to Amendment

Applicant's arguments filed 11/1/2005 have been fully considered but they are not persuasive.

Applicant argues that in Moslehi processing rate at the central portion of the specimen greatly differs from the processing rate in other portions. Applicant further argues that there will be abnormal discharge on the optical transmitter. Applicant however does not support this by any factual disclosure. It is noted that the optical transmitter in the application is almost in contact with the back of the through holes.

Since Moslehi as modified by the teaching of Grimbergen provides the structure, which is no different from the invention, the rejection is proper.

#### Conclusion

2. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ram N. Kackar whose telephone number is 571 272 1436. The examiner can normally be reached on M-F 8:00 A.M to 5:P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Parviz Hassanzadeh can be reached on 571 272 1435. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/810,598

Art Unit: 1763

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

Page 5

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ram Kackar

Primary Examiner AU 1763